

GREEN RIVER BASIN  
09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT

LOCATION.--Lat 39°42'57", long 111°17'58", in NW<sup>1/4</sup>SE<sup>1/4</sup>SW<sup>1/4</sup> sec. 6, T. 13 S., R. 6 E., Sanpete County, Hydrologic Unit 14060007, on left bank 300 ft downstream from old Mammoth Dam, 5.5 mi upstream from mouth, and 7 mi west of Scofield.

DRAINAGE AREA.--16.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1930 to September 1931, May 1940 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,400 ft above sea level, from topographic map. October 1930 to September 1931, at different datum, May 1940 to September 1954, at datum 0.50 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Transmountain diversion above station for irrigation in Sevier River basin, part of which is water diverted into Gooseberry Creek from Boulder Creek. A small reservoir on Gooseberry Creek 5 mi above station, capacity about 1,900 acre-ft is used to regulate these diversions. Flow also affected by small reservoir 1 mi above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 419 ft<sup>3</sup>/s May 22, 1984; maximum gage height, 3.37 ft May 27, 1986; no flow Nov. 11, 1964, Sept. 23-26, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum estimated daily discharge, 365 ft<sup>3</sup>/s May 17; minimum daily discharge, 3.1 ft<sup>3</sup>/s several days in Oct.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	4.2	4.6	4.0	4.3	4.5	8.8	e58	188	19	7.5	4.9
2	3.2	4.1	e4.6	e4.0	4.6	4.4	9.4	e56	194	19	7.2	5.3
3	3.2	4.3	e4.7	e4.2	4.3	e4.3	7.4	e45	187	18	7.1	7.7
4	3.4	4.2	4.4	e4.0	4.2	4.2	7.6	e48	178	18	9.4	5.9
5	3.4	4.7	e4.4	e3.9	4.5	4.2	e7.8	e90	165	18	12	4.6
6	3.2	4.1	e4.3	e3.8	4.3	4.2	e7.9	e120	148	18	7.8	4.3
7	3.2	3.9	4.3	e3.8	e4.4	4.2	e7.8	e160	130	17	6.4	4.8
8	3.2	3.9	4.3	e4.0	4.5	4.3	7.7	e180	91	16	5.7	5.1
9	3.2	3.9	4.4	e4.1	e4.5	4.1	6.8	e210	77	16	6.1	5.3
10	3.3	3.8	e4.4	e4.2	4.9	4.5	6.6	e260	70	16	8.1	5.4
11	3.2	3.9	e4.4	e4.1	4.7	4.7	e6.5	e310	63	14	6.4	5.6
12	3.1	3.9	4.6	e4.0	4.5	4.5	e6.4	e310	58	13	6.7	6.1
13	3.3	3.9	4.4	e4.0	4.2	e4.4	e6.3	e320	56	12	7.2	5.4
14	3.1	4.0	e4.4	e3.9	4.4	e4.5	6.2	e350	59	12	5.8	5.5
15	3.3	3.9	e4.5	e3.8	4.5	4.5	7.3	e340	55	11	5.2	6.3
16	3.1	4.1	4.5	e3.7	4.4	4.5	7.9	e350	52	10	4.8	6.8
17	3.2	4.5	e4.4	e3.9	4.4	4.6	8.6	e365	51	10	4.6	5.6
18	3.7	5.5	e4.3	4.2	4.3	5.9	12	e355	49	10	4.7	14
19	3.8	5.3	4.2	4.2	e4.4	5.7	17	e330	45	10	4.5	18
20	4.0	5.0	4.2	4.4	4.4	6.5	24	e290	42	9.8	4.5	9.0
21	3.6	4.9	4.2	e4.4	4.3	6.0	33	e270	39	9.3	5.0	7.0
22	3.5	14	e4.2	4.4	4.5	6.3	35	e240	34	9.4	4.7	6.1
23	3.7	10	e4.1	e4.5	4.3	6.9	34	e210	33	10	4.4	5.5
24	4.4	6.9	4.1	e4.4	4.2	e7.0	27	201	31	9.5	4.4	5.3
25	5.4	5.9	4.1	e4.3	4.3	e7.2	23	179	26	8.4	4.2	5.3
26	4.7	5.2	e4.1	e4.6	4.5	e7.4	e23	166	25	8.0	4.1	6.7
27	4.2	5.3	e4.0	e4.6	e4.4	7.5	e32	142	24	8.1	4.0	6.7
28	4.4	4.7	e4.0	e4.6	e4.5	9.1	e50	137	22	10	4.0	5.5
29	4.7	5.2	4.0	4.6	---	e9.0	e80	138	21	10	4.0	5.3
30	4.4	4.5	3.9	4.4	---	e8.9	e68	146	21	8.2	3.8	5.0
31	4.5	---	4.0	4.4	---	8.7	---	165	---	7.7	4.4	---
TOTAL	113.7	151.7	133.0	129.4	123.7	176.7	585.0	6541	2234	385.4	178.7	194.0
MEAN	3.67	5.06	4.29	4.17	4.42	5.70	19.5	211	74.5	12.4	5.76	6.47
MAX	5.4	14	4.7	4.6	4.9	9.1	80	365	194	19	12	18
MIN	3.1	3.8	3.9	3.7	4.2	4.1	6.2	45	21	7.7	3.8	4.3
AC-FT	226	301	264	257	245	350	1160	12970	4430	764	354	385

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1997, BY WATER YEAR (WY)

MEAN	4.88	4.56	3.82	3.47	3.43	4.26	18.3	102	61.3	13.9	7.20	5.02
MAX	13.5	11.6	9.00	7.83	7.37	10.6	55.4	239	239	47.9	16.7	14.1
(WY)	1983	1983	1942	1984	1984	1972	1942	1952	1983	1983	1965	1965
MIN	.65	1.92	1.81	1.40	1.40	2.13	3.37	12.9	9.35	3.75	1.96	1.89
(WY)	1979	1991	1960	1960	1960	1963	1975	1977	1992	1977	1977	1977

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1941 - 1997

ANNUAL TOTAL	7277.0		10946.3							19.4		
ANNUAL MEAN		19.9		30.0						40.7		
HIGHEST ANNUAL MEAN										4.65		
LOWEST ANNUAL MEAN											1977	
HIGHEST DAILY MEAN	280	May 16		365	May 17					419	May 22 1984	
LOWEST DAILY MEAN	2.1	Jan 27		3.1	Oct 1					.00	Sep 23 1966	
ANNUAL SEVEN-DAY MINIMUM	2.6	Aug 29		3.2	Oct 11					.06	Sep 22 1966	
ANNUAL RUNOFF (AC-FT)	14430		21710							14080		
10 PERCENT EXCEEDS	59		78							50		
50 PERCENT EXCEEDS	4.3		5.2							5.0		
90 PERCENT EXCEEDS	2.8		3.9							2.6		

e Estimated